Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

In the Matter of Update to Parts 2 and 25 Concerning Non-Geostationary, Fixed-Satellite Service Systems and Related Matters	)))))	IB Docket No. 16-408

OPPOSITION OF TELESAT CANADA TO THE PETITION FOR RECONSIDERATION OF VIASAT, INC.

Telesat Canada ("Telesat"), pursuant to Section 1.429 of the Commission's rules, hereby opposes in part the Petition for Reconsideration (the "Petition") of Viasat, Inc. ("Viasat") in the above-captioned proceeding (the "NGSO Proceeding").[1] In the Petition, Viasat requests the Commission to reconsider, *inter alia*, its decision in the NGSO Proceeding to adopt the EPFD limits reflected in Article 22 of the ITU's Radio Regulations for non-geostationary satellite orbit ("NGSO") systems operating in the Ka-band. Telesat opposes this request.

Viasat alleges the Commission acknowledged the ITU EPFD limits "will leave GSO networks vulnerable to new NGSO operations" and are "outdated" and "incomplete". In fact, the Commission did no such thing.

In adopting the ITU EPFD limits in the 17.8-30 GHz range for NGSO systems, the Commission noted that this would "harmonize our rules with international regulations and provide greater certainty for NGSO FSS operators."[2] The Commission also addressed aggregate

[1] *Update to Parts 2 and 25 Concerning Non-Geostationary, Fixed-Satellite Service Systems and Related Matters*, 32 FCC Rcd 7809 (2019) ("NGSO R&O")

[2] ¶ 35

limits, stating that it would "require NGSO FSS operators to comply with existing aggregate EPFD limits as well, and may intervene if operators cannot agree among themselves how to ensure aggregate limits are met." None of these conclusions is challenged by the Petition, which merely reiterates arguments submitted by Viasat in the NGSO Proceeding that the Commission already has rejected.

As noted by the Commission, "[n]early all parties commenting on the issue, including GSO operators, support the domestic adoption of ITU EPFD limits",[3] which limits were years in the making. For its part, as a long-standing GSO operator, Telesat is keenly aware of the balances on both sides of the table. As described in Telesat's Reply in the NGSO Proceeding, Telesat performed a worst-case analysis to assess the impact on a GSO satellite operating in Ka-band of an NGSO system operating at the maximum power level in Table 22-1B of Article 22. The results of this analysis showed that the added interference to the GSO satellite was within acceptable limits.[4] As Telesat also pointed out in its Reply, Viasat's analysis is based on unrealistic assumptions. It ignores many of the features of new satellites, including steerable spot beams, radio resource management systems, satellites transmitting only when traffic is present, and ground terminals transmitting only when a downlink is present, that reduce overall EPFD, and it ignores changes in GSO system design, such as narrower beams, that make GSOs less susceptible to interference.[5]

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[3] ¶ 34

[4] Telesat Reply at 14

[5] Telesat Reply at 13-14

The Commission's decision in the NGSO R&O to adopt ITU EPFD limits in the 17.8-30 GHz range for NGSO systems is therefore firmly grounded in the record of the proceeding and is well reasoned. For these reasons, the Petition should be denied.

Respectfully submitted,

TELESAT CANADA

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CERTIFICATE OF SERVICE

I hereby certify that on this 20th day of February, 2018, a copy of the foregoing Opposition of Telesat Canada was sent by first-class, United States mail to the following:

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